



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/772,982

02/04/2004

Baher S. Haroun

TI-27596.2

5472

23494

7590

06/30/2006

TEXAS INSTRUMENTS INCORPORATED

P O BOX 655474, M/S 3999

DALLAS, TX 75265

EXAMINER

BONURA, TIMOTHY M

ART UNIT

PAPER NUMBER

2114

DATE MAILED: 06/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/772,982	<b>Applicant(s)</b> HAROUN ET AL.	
	<b>Examiner</b> Tim Bonura	<b>Art Unit</b> 2114	

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 04 August 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

- **Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Mack, et al, U.S. Patent Number 5,689,516.**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Mack, et al, U.S. Patent Number 5,689,516.

3. Regarding claim 1:

- a. Regarding the limitation of "providing within said integrated circuit a test port linking circuit having a register for receiving a first portion of said serial instruction frame," Mack discloses a system with a JTAG port capable of receiving instruction frames. (Lines 10-13 of Column 2).

- b. Regarding the limitation of "providing within said integrated circuit a test port circuit having a register for receiving a second portion of said serial instruction frame," Mack discloses a system with a JTAG port for receiving disable bit. (Lines 15-18 of Column 2).

- c. Regarding the limitation of "transmitting the serial instruction frame to said registers of said test port linking and test port circuits," Mack discloses a system with a JTAG capable of receiving instructions on the TAP from a user. (Lines 15-18 of Column 4).

Art Unit: 2114

- d. Regarding the limitation of "responding to the instruction frame portion transmitted into the register of the test port linking circuit to disable further transmission of instruction frames into said test port circuit," Mack discloses a system with a disable bit that when programmed, disables the JTAG. (Lines 15-18 of Column 2 and Lines 28-32 of Column 4).
- 4. Regarding claim 2:
  - e. Regarding the limitation of "providing within said integrated circuit a test port linking circuit having a register for receiving said serial instruction frame," Mack discloses a system with a JTAG port capable of receiving instruction frames. (Lines 10-13 of Column 2).
  - f. Regarding the limitation of "providing within said integrated circuit a test port circuit," Mack discloses a system with a JTAG and a TAP port. (Lines 15-18 of Column 4).
  - g. Regarding the limitation of "transmitting said serial instruction frame to said registers of said test port linking and test port circuits," Mack discloses a system with a JTAG capable of receiving instructions on the TAP from a user. (Lines 15-18 of Column 4).
  - h. Regarding the limitation of "responding to the instruction frame transmitted into the register of the test port linking circuit to enable further transmission of further instruction frames into said test port circuit," Mack discloses a system wherein if the disable bit is a logic zero, test port circuit remains active to receive test commands. (Lines 15-28 of Column 4).

Art Unit: 2114

**Conclusion**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tim Bonura**.

- The examiner can normally be reached on **Mon-Fri: 8:30-5:00**.
- The examiner can be reached at: **571-272-3654**.

6. If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, **Scott Baderman**.

- The supervisor can be reached on **571-272-3644**.

7. The fax phone numbers for the organization where this application or proceeding is assigned are:

- **703-872-9306 for all patent related correspondence by FAX.**

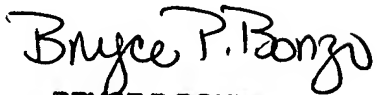
8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov/>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

9. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **receptionist** whose telephone number is: **571-272-2100**.

10. Responses should be mailed to:

- **Commissioner of Patents and Trademarks**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

tmb  
June 24, 2006

  
**BRYCE P. BONZO**  
**PRIMARY EXAMINER**